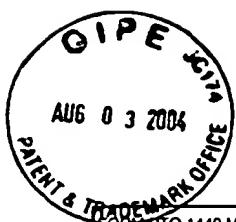




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		M-12004 US	Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s)	
(Use several sheets if necessary)		MacKinnon, Neil; Woodley, Bruce R.	
		Filing Date	Group
		Herewith 9/16/81	Unknown 3808

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U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
OM	AA	3,867,012	2/18/75	Phillips	385 350	10 96	
	AB	4,384,750	5/24/83	Alfernness Hager	312350	296 96	
	AC	4,384,760	5/24/83	Alfernness	385 350	11 96.14	
	AD	4,390,236	6/28/83	Alfernness	385 350	9 96.14	
	AE	4,445,751	5/1/84	Divens et al	385 350	43 96.14	
	AF	4,533,207	8/6/85	Alfernness	385 350	40 96.14	
	AG	4,667,331	5/19/87	Alfernness et al	372	12	
	AH	4,695,121	9/22/87	Mahapatra et al	385 350	40 96.12	
	AI	4,728,207	3/1/88	Afernness et al	385 350	40 96.14	
	AJ	4,948,407	8/14/90	Bindell et al	65 64	386 314	
	AK	5,150,447	9/22/92	Tamada et al	385	130	
	AL	5,185,831	2/9/93	Kawashima	385	41	
	AM	5,311,540	5/10/94	Pocholle et al	372	97	
OM	AN	5,319,494	6/7/94	Miyaguchi et al	359	487	
OM	AO	5,327,447	7/5/94	Mooradian	372	92	

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Yes	No
	AP			/				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OM	AQ	"Efficient Waveguide Electro-Optic TE↔TM Mode converter/Wavelength Filter", Alfernness et al., <i>Applied Physics Letters</i> , vol. 36, No. 7, April 1980, pp. 513-515.
OM	AR	"Switching Operations of Three-Waveguide Optical Switches", Kim et al., <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , vol. 6, No. 1, Jan./Feb. 2000, pp. 170-174.
OM	AS	"Three-Waveguide Couplers for Improved Sampling and Filtering", Haus et al., <i>IEEE Journal of Quantum Electronics</i> , vol. QE-17, No. 12, Dec. 1981, pp. 2321-2325.

Examiner OM Date Considered 12/04

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		Filing Date	Group
		Herewith 9/15/95	Unknown 272

U.S. Patent Documents

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<i>Sm</i>	AA	5,393,371	2/28/95	Chang et al	156	629	
	AB	5,442,719	8/15/95	Chang et al	385	3	
	AC	5,473,722	12/5/95	Sohler et al	385	132	
	AD	5,488,681	1/30/96	Deacon et al	385	37	
	AE	5,519,802	5/21/96	Field et al	385	129	
	AF	5,524,012	6/4/96	Wang et al	372	23	
	AG	5,526,439	6/11/96	Bergmann	385	24	
	AH	5,581,642	12/3/96	Deacon et al	385	15	
	AI	5,615,041	3/25/97	Field et al	359	326	
	AJ	5,809,188	9/15/98	Tseng et al	385	37	
<i>Sm</i>	AK	5,852,688	12/22/98	Brinkman et al	385	16	

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
	AL						
	AM						
	AN						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Sm</i>	AO	"Relation Between Normal-Mode and Coupled-Mode Analyses of Parallel Waveguides", Marom et al., vol. QE-20, No. 12, Dec. 1984, pp. 1311-1319.
<i>Sm</i>	AP	"Tunable Optical Waveguide Directional Coupler Filter", Alferness et al., <i>Applied Physics Letters</i> , vol. 33, No. 2, July 1978, pp. 161-163.
<i>Sm</i>	AQ	"Switched Directional Couplers with Alternating $\Delta\beta$ ", Kogelnik et al., <i>IEEE Journal of Quantum Electronics</i> , vol. QE-12, No. 7, July 1976, pp. 396-401.

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		MacKinnon, Neil; Woodley, Bruce R.	
		Filing Date	Group
		Herewith 9/10/01	Unknown

U.S. Patent Documents J858

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Qm	AA	6,041,071	3/21/00	Tayebati	372	64	
	AB	6,074,594	6/13/00	Byer et al	264	406	
	AC	6,101,210	8/8/00	Bestwick et al	372	96	
	AD	6,108,355	8/22/00	Zorabedian	372	20	
	AE	6,156,255	12/5/00	Byer et al	264	406	
	AF	6,156,483	12/5/00	McCoy et al	430	311	
Qm	AG	6,246,709 B1	6/12/01	Oshima et al	372	50	
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents

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	AL						Yes
	AM						No
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Qm	AQ	Wacogne et al. "Single lithium niobate crystal for mode selection and phase modulation in a tunable extended-cavity diode laser", Optics Letters, vol. 19, no. 17, September 1994. pp. 1334 - 1336
Qm	AR	"Laser-Diode-Pumped, Electro-Optically Tunable Nd:MgO:LiNbO ₃ Microchip Laser", MacKinnon et al., Journal of the Optical Society of America B, vol. 11, No. 3, Mar. 1994, pp. 519-522.
Qm	AS	"Fast Silicon-on-Silicon Optoelectronic Router Based on a BMFET Device", Itrace et al., IEEE Journal of Selected Topics in Quantum Electronics, vol. 6, No. 1, Jan./Feb. 2000, pp. 14-17.

Examiner *Qm* Date Considered 12/04

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AK	"Design Equations for the Reflectivity of Deep-Etch Distributed Bragg Reflector Gratings", Kasunic et al., <i>Journal of Lightwave Technology</i> , vol. 18, No. 3, Mar. 2000, pp. 425-429.
AL	"Characteristics of Ti-Diffused Lithium Niobate Optical Directional Couplers", Alferness et al., <i>Applied Optics</i> , vol. 18, No. 23, Dec. 1979, pp. 4012-4016.
AM	"Coupling Optical Waveguides by Tapers", Nelson et al., <i>Applied Optics</i> , vol. 14, No. 12, Dec. 1975, pp. 3021-3015.
AN	"Tunable Optical Waveguide Directional Coupler Filter", Alferness et al., <i>Applied Physics Letters</i> , vol. 33, No. 2, July 1978, pp. 161-163. Duplicate See "AP"
AO	"Loss in Cleaved Ti-Diffused LiNbO ₃ Waveguides", Kaminow et al., <i>Applied Physics Letters</i> , vol. 33, No. 1, July 1978, pp. 62-64.
AP	"Design of Lithium Niobate Based Photonic Switching Systems", Payne et al., <i>IEEE Communications Magazine</i> , vol. 25, No. 5, May 1987, pp. 37-41.

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		Herewith 9-1001	Unknown

U.S. Patent Documents J821

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AB						
AC						
AD						

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	AG								

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<i>Om</i>	AH	"Electro-Optic Light Modulator with Branched Ridge Waveguide", Ohmachi et al., <i>Applied Physics Letters</i> , vol. 27, No. 10, Nov. 1975, pp. 544-546.
<i>Om</i>	AI	"Active Branching Waveguide Modulator", Burns et al., <i>Applied Physics Letters</i> , vol. 29, No. 12, Dec. 1976, pp. 790-792.
<i>Om</i>	AJ	"Optical Waveguide Parabolic Coupling Horns", Burns et al., <i>Applied Physics Letters</i> , vol. 30, No. 1, Jan. 1977, pp. 28-30.
<i>Om</i>	AK	"External-Cavity Semiconductor Laser with 15nm Continuous Tuning Range", Favre et al., <i>Electronics Letters</i> , vol. 22, No. 15, July 1986, pp. 795-796.
<i>Om</i>	AL	"Metal-Diffused Optical Waveguides in LiNbO ₃ ", Schmidt et al., <i>Applied Physics Letters</i> , vol. 25, No. 8, Oct. 1974, pp. 458-460.
<i>Om</i>	AM	"Light Beam Scanning and Deflection in Epitaxial LiNbO ₃ Electro-Optic Waveguides", Tien et al., <i>Applied Physics Letters</i> , vol. 25, No. 10, Nov. 1974, pp. 563-565.
<i>Om</i>	AN	"A Three-Dimensional Optical Photonic Crystal", Lin et al., <i>Journal of Lightwave Technology</i> , vol. 17, No. 11, Nov. 1999, pp. 1944-1947.

Examiner *Om* Date Considered 12/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

U.S. Department of Commerce, Patent and Trademark Office	Atty Docket No.	Serial No.
	M-12004 US	Unknown
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant(s)	9-94448
(Use several sheets if necessary)	MacKinnon, Neil; Woodley, Bruce R.	
	Filing Date	Group
	Herewith 9-10-01	Unknown 292

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Yes	No	Translation
	AE								
	AF								
	AG								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>GM</i>	AH	"Agile and Fast Switching Monolithically Integrated Four Wavelength Selectable Source at 1.55 μ m", Talneau et al., <i>IEEE Photonics Technology Letters</i> , vol. 11, No. 1, Jan. 1999, pp. 12-14.
<i>GM</i>	AI	"Bragg Grating Fast Tunable Filter", Iocco et al., <i>Electronics Letters</i> , vol. 33, No. 25, Dec. 1997, pp. 2147-2148.
<i>GM</i>	AJ	"Long-Period Fiber Gratings as Band-Rejection Filters", Vengsarkar et al., <i>Journal of Lightwave Technology</i> , vol. 14, No. 1, Jan. 1996, pp. 58-65.
<i>GM</i>	AK	"Single Lithium Niobate Crystal for Mode Selection and Phase Modulation in a Tunable Extended-Cavity Laser Diode", Wacogne et al., <i>Optics Letters</i> , vol. 19, No. 17, Sept 1994, pp. 1334-1336. <i>Duplicate; See "AQ"</i>
<i>GM</i>	AL	"Electro-Optic Waveguide TE \leftrightarrow TM Mode Converter with Low Drive Voltage", Alferness et al., <i>Optics Letters</i> , vol. 5, No. 11, Nov. 1980, pp. 473-475.
<i>GM</i>	AM	"All-Optical Switching in an Angled -Grating Semiconductor Bragg Amplifier", Franke et al., <i>IEEE Photonics Technology Letters</i> , vol. 11, No. 7, July 1999, pp. 815-817.
<i>GM</i>	AN	"Design, Tolerance Analysis, and Fabrication of Silicon Oxynitride Based Planar Optical Waveguides for Communication Devices", Wörhoff et al., <i>Journal of Lightwave Technology</i> , vol. 17, No. 8, Aug. 1999, pp. 1401-1407.

Examiner *GM* Date Considered 12/04

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-12004 US	Unknown 19-954495
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s)	
(Use several sheets if necessary)		MacKinnon, Neil; Woodley, Bruce R.	
		Filing Date	Group
		Herewith 9-10-81	Unknown 28-28

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
AA						
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Foreign Patent Documents

	Document	Date	Country	Class	Subclass	Yes	No	Translation
AE								
AF								
AG								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>GM</i>	AH	"Epitaxial Liftoff Microcavities for 1.55-μm Quantum-Well Spatial Light Modulators", Matos et al., <i>IEEE Photonics Technology Letters</i> , vol. 11, No. 1, Jan. 1999, pp. 57-59.
<i>GM</i>	AI	"Realization of All-Optical Wavelength Converter Based on Directionally Coupled Semiconductor Optical Amplifiers", Ma et al., <i>IEEE Photonics Technology Letters</i> , vol. 11, No. 2, Feb. 1999, pp. 188-190.
<i>GM</i>	AJ	"Widely Tunable Sampled Grating DBR Laser with Integrated Electroabsorption Modulator", Mason et al., <i>IEEE Photonics Technology Letters</i> , vol 11, No. 6, June 1999, pp. 638-640.
<i>GM</i>	AK	"In-Line Fibre-Optic Polariser", Eickhoff et al., <i>Electronics Letters</i> , vol. 16, No. 20, Sept. 1980, pp. 762-763.
<i>GM</i>	AL	"Single-Mode Fiber-Optic Polarizer", Bergh et al., <i>Optics Letters</i> , vol. 5, No. 11, Nov. 1980, pp. 479-481.
<i>GM</i>	AM	"Performance of Surface-Plasma-Wave Fiber-Optic Polarizers", Zervas et al., <i>Optics Letters</i> , vol. 15, No. 9, May 1990, pp. 513-515.
<i>GM</i>	AN	"Fabrication of a Side-Polished Fiber Polarizer with a Birefringent Polymer Overlay", Lee et al., <i>Optics Letters</i> , vol. 22, No. 9, May 1997, pp. 606-608.

Examiner *GM* Date Considered 12/04

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				Herewith	Unknown			
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Foreign Patent Documents							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AE							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>On</i>	AF	"UV-Induced Surface-Relief Gratings on LiNbO ₃ Channel Waveguides", Wu et al., <i>IEEE Journal of Quantum Electronics</i> , vol. 35, No. 10, Oct. 1999, pp. 1369-1373.						
<i>On</i>	AG	"Metal-Diffused Optical Waveguides in LiNbO ₃ ", Schmidt et al., <i>Applied Physics Letters</i> , vol. 25, No. 8, Oct. 1974, pp. 458-460.						
<i>On</i>	AH	"Elimination of Out-Diffused Surface Guiding in Titanium-Diffused LiNbO ₃ ", Jackel et al., <i>Applied Physics Letters</i> , vol 38, No. 7, April 1981, pp. 509-511.						
<i>On</i>	AI	"Efficient Single-Mode Fiber to Titanium Diffused Lithium Niobate Waveguide Coupling for $\lambda = 1.32 \mu\text{m}$ ", Alferness et al., <i>IEEE Journal of Quantum Electronics</i> , vol. QE-18, No. 10, Oct. 1982, pp. 1807-1812.						
<i>On</i>	AJ	"Influence of Temperature and Initial Titanium Dimensions on Fiber-Ti:LiNbO ₃ Waveguide Insertion Loss at $\lambda = 1.3 \mu\text{m}$ ", McCaughan et al., <i>IEEE Journal of Quantum Electronics</i> , vol. QE-19, No. 2, Feb. 1983, pp. 131-135.						
<i>On</i>	AK	"Precise Determination of Refractive-Index Changes in Ti-diffused LiNbO ₃ Optical Waveguides", Minakata et al., <i>J. Applied Physics</i> , vol. 49, No. 9, Sept. 1978, pp. 4677-4682.						
<i>On</i>	AL	"Electron-Concentration Dependence of Absorption and Refraction in n-In _{0.53} Ga _{0.47} As Near the Band-Edge", Hahn et al., <i>Journal of Electronic Materials</i> , vol. 24, No. 10, 1996, pp. 1357-1361. (no month)						
<i>On</i>	AM	"Low Power Acousto-Optic Device Based on a Tapered Single-Mode Fiber", Birks et al., <i>IEEE Photonics Technology Letters</i> , vol. 6, No. 6, June 1994, pp. 725-727.						
Examiner	<i>On</i>	Date Considered		12/04				
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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Serial No.
		M-12004 US	89-954493
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s)	
(Use several sheets if necessary)		MacKinnon, Neil; Woodley, Bruce R.	
		Filing Date	Group
		9-10-01	2828

U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
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Foreign Patent Documents

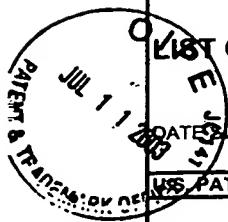
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	Document	Date	Country	Class	Subclass	Yes	No	
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AH								
AI								
AJ								
AK								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>GM</i>	AL	Wu et al, "FIR Filter Design via Spectral Factorization and Convex Optimization", 33 pages. Dated prior to filing of this application <i>(no month, yr)</i>
<i>GM</i>	AM	Oppenheim et al, "Filter Design Techniques", <u>Discrete-Time Signal Processing</u> , Prentice Hall, Englewood Cliffs, New Jersey, 1989, pages 403-480. <i>(no month)</i>
<i>GM</i>	AN	Leuthold et al, "Multimode Interference Couplers for the Conversion and Combining of Zero- and First-Order Modes", <u>Journal of Lightwave Technology</u> , Vol 16, no 7, July 1998, pages 1228-1239.
<i>GM</i>	AO	"Overampling Techniques using the TMS320C24x Family", Texas Instruments Europe, June 1998, 37 pages
<i>GM</i>	AP	Okamoto, Katsunari, "Fundamentals of Optical Waveguides", NTT Photonics Laboratories, Japan, Academic Press, 2000, pages 59-71 <i>(no month)</i>

Examiner *GM* Date Considered 12/10/01

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